

## Publications

### Conference materials

#### 2020

Rybka, M., Matusik, J. (2020) Efficiency of selected anions removal by Mg/Al and Mg/Fe LDH obtained with different sources of Mg. XXIst International Conference of Young Geologists HERL'ANY 2020: Niedzica, Poland, 05-07.11.2020: abstract book & introduction to the Pieniny Klippen Belt / eds. Peter Kiss, [et al.]. Wydawnictwo Mineralogiczne MINERALPRESS, 2020, ISBN: 978-83-933330-2-8, s. 1-2.

Koteja, A., Maziarz, P., Solińska, A., Matusik, J. (2020) Removal of anionic contaminants from wastewaters using functionalized mineral adsorbent in a fixed-bed column installation. W: Industrial Water 2020: 17-19 November 2020, virtual conference: book of abstracts. Frankfurt am Main: Dechema, s. 137–138.

Koteja, A., Maziarz, P., Solińska, A., Matusik, J. (2020) Granulated and functionalized halloysite for anions adsorption. 57<sup>th</sup> Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Matusik, J., Deng, Y. (2020) Fumonisin FB1 interaction with Mg-Al and Mg-Fe layered double hydroxides: removal efficiency and mechanisms. 57<sup>th</sup> Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Maziarz, P., Matusik, J. (2020) Kaolin particles coated with zero-valent iron – competitive adsorption of Pb/Cd, regeneration and reuse possibilities. 57<sup>th</sup> Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Rybka, K., Matusik, J. (2020) Mg/Al LDH obtained via transformation of minerals for the removal of selected elements from acidic and alkaline wastewaters. 57<sup>th</sup> Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Rybka, K., Matusik, J. (2020) Different approaches to transformation of selected minerals into layered double hydroxides. 57<sup>th</sup> Annual Meeting of the Clay Minerals Society (virtual conference), 18-23.10.2020. Book of abstracts.

Andrunik M., Bajda T. 2020. Structural and textural features of bentonite modified with mixed cationic and nonionic surfactants. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Bajda T., Sobczyk M. 2020. Stability of chromium compounds immobilized on organo-zeolites. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Muir B., Bajda T. 2020. The influence of zeolites' surface modification on sorption, structural and textural features. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Nowak P., Bajda T. 2020. Methods for optimization of hard coal fly ash quality : chances and risks in Central and Eastern Europe. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

Sobczyk M., Akinsumade A., Bajda T. 2020. Temperature stability of chemically synthesized alginate-based aerogel during metal ions removal. *XXI<sup>st</sup> International Conference of Young Geologists HERL'ANY 2020: Niedzica, Poland, 05-07.11.2020*. In: abstract book & introduction to the Pieniny Klippen Belt / eds. Peter Kiss, [et al.].

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Solińska A., Bajda T. 2020. The low-cost hybrid sorbents for immobilization of dyes: sorbents features characterization. *EGU General Assembly 2020, 4–8 May 2020: online*. In: book of abstracts.

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Wołowicz M., Komorowska-Kaufman M., Pruss A., Rzepa G., Bajda T. 2020. Sorption of H<sub>2</sub>S on water treatment residuals generated during drinking water treatment. *Goldschmidt Virtual 2020, 21–26 June 2020*. In: book of abstracts.

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Walczyk A., Michalik A., Napruszewska B.D., Kryściak-Czerwenka J., Karcz R., Duraczyńska D., Socha R.P., Olejniczak Z., Wójcik-Bania M., Bahranowski K., Serwicka E. M. (2020) Physico-chemical characterization of desilicated sepiolite. LII Polish Annual Conference on Catalysis: 25–27.11.2020, Kraków, red. U. Filek; Instytut Katalizy i Fizykochemii Powierzchni im. Jerzego Habera PAN, [et al.]. Kraków: IkiFP PAN, 2020. ISBN: 978-83-60514-32-0, s. 102.

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## 2019

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Koteja, A., Matusik, J. (2019) Photoactive hybrid nanomaterials derived from layered minerals. W: ICYG 2019: International Conference of Young Geologists: April 3-5 2019, Herl'any, 45-47.

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Rybka, K., Matusik, J. (2019) Mg/Al LDH formation via transformation of minerals through the AlCl<sub>3</sub> hydrolysis. W: ICYG 2019: International Conference of Young Geologists: April 3-5 2019, Herl'any, 97-98.

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Maziarz, P., Matusik, J. (2019) Enhanced removal efficiency of Pb(II) and Cd(II) by kaolin impregnated with zerovalent iron particles. W: ICYG 2019: International Conference of Young Geologists: April 3-5 2019, Herl'any, 64-66.

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Maziarz, P., Matusik, J. (2019) Halloysite-supported iron oxide particles for As(V) removal: adsorption mechanism investigation by the XPS and Mössbauer spectroscopy. W: ECMS 2019 [Dokument elektroniczny]: European Conference on Mineralogy and Spectroscopy:[September 11–13, 2019, Prague, Czech Republic], 29.

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Rybka, K., Matusik, J. (2019) The effect of M(II)/M(III) molar ratio on the LDH structure derived from chemicals and minerals: a spectroscopic study using FTIR, Raman and XPS. W: ECMS 2019 [Dokument elektroniczny]: European Conference on Mineralogy and Spectroscopy:[September 11–13, 2019, Prague, Czech Republic], 36.

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Rybka, K., Matusik, J. (2019) Physico-chemical studies of Mg/Fe and Mg/Al Layered Double Hydroxides obtained via transformation of minerals. W: EUROCLAY 2019 [Dokument elektroniczny]: International Conference on Clay Science and Technology: July 2019, Paris :book of abstracts, 540.

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Matusik, J., Rybka, K., Maziarz, P., Hyla, J., Kuzdro, J., Tobała, B. (2019) Halloysite-LDH heterostructured materials: performance in removal of selected anions from aqueous solutions. W: EUROCLAY 2019 [Dokument elektroniczny]: International Conference on Clay Science and Technology: July 2019, Paris :book of abstracts, 428.

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Maziarz, P., Matusik, J. (2019) Effectiveness of As(V) removal from wastewaters by layered double hydroxides impregnated with Fe oxide. W: EUROCLAY 2019 [Dokument elektroniczny]: International Conference on Clay Science and Technology: July 2019, Paris :book of abstracts, 430.

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Rybka, K., Matusik, J. (2019) Characterization of hydrotalcite/pyroaurite-like anion adsorbents derived from magnesite and dolomite. W: *Sorbenty mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie*. [abstrakty z konferencji: 16–17 września 2019, Jerzmanowice] / red. nauk. Tomasz Bajda. — Kraków: Wydawnictwo Naukowe AKAPIT, 2019. — ISBN: 978-83-65955-37-1, 57–58.

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Maziarz, P., Matusik, J. (2019) Enhanced sulphate removal by precipitation and adsorption using  $\text{Ca}(\text{OH})_2$  and synthetic layered double hydroxide: acid mine drainage case study. W: *Sorbenty mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie*. [abstrakty z konferencji: 16–17 września 2019, Jerzmanowice] / red. nauk. Tomasz Bajda. — Kraków: Wydawnictwo Naukowe AKAPIT, 2019. — ISBN: 978-83-65955-37-1, 48-49.

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Andrunik M., Bajda T. (2019). Sorpcja atrazyny na minerałach ilastych modyfikowanych surfaktantami organicznymi – przegląd literatury. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of abstracts, Bajda T. (red), pp. 9–10.

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Bajda T., Tuchowska M., Muir B., Kowalik M., Socha R.P. (2019). Sorption of molybdates and tungstates on modified smectites. *EUROCLAY 2019: international conference on clay science and technology, 1-5 July, 2019, Paris, France*. In: book of abstracts, pp. 108.

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Gara P., Wisła-Walsh E., Bajda T. (2019). Granulacja dwustopniowa sorbentów kompozytowych do obniżania zawartości siarki w żeliwie. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of abstracts, Bajda T. (red), pp. 35–36.

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Manecki M., Puzio B., Solecka U., Bajda T., Topolska J. (2019). Compositional analysis of  $\text{PO}_4$ ,  $\text{AsO}_4$ , and  $\text{VO}_4$  in Pb-apatites with Raman spectroscopy. *ECMS 2019: 9<sup>th</sup> European Conference on Mineralogy and Spectroscopy, September 11–13, 2019, Prague, Czech Republic*. In: book of abstracts, pp. 29.

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Nowak P., Muir B., Nabagło D., Bajda T. (2019). Materiały funkcjonalizowane na bazie popiołów lotnych aktywowanych ściekami z energetyki zawodowej. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of abstracts, Bajda T. (red), pp. 52–53.

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Puzio B., Solecka U., Manecki M., Bajda T. (2019). Thermodynamics of pyromorphite - vanadinite solid solution series. *ICYG 2019: XX<sup>th</sup> International Conference of Young Geologists, April 3-5 2019, Herl'any, Slovakia*. In: abstract book, Bakalár T. et al (eds), pp. 87–88.

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Solińska A., Bajda T. (2019). Low-cost materials as the sorbents for organic compounds removal: a review. *12<sup>th</sup> GEOSYMPIUM of young researchers SILESIA 2019, 2–4 September 2019, Tarnowskie Góry*. In: book of abstracts, Abramowicz A., Braclawska A., Brom A., Fiedor D., Kondas M., Ślósarczyk K. (eds), pp. 58.

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Topolska J., Bajda T., Puzio B., Manecki M., Kozub-Budzyń G. (2019). Time as a challenging constraint of experimental studies in applied mineralogy of apatites. *CAGG-AGH-2019: “Challenges in Applied Geology and Geophysics: 100<sup>th</sup> anniversary of applied geology at AGH University of Science and Technology” : international scientific conference, 10-13 September 2019, Kraków*. In: book of abstracts, Jarzyna J., Krakowska-Madejska P., Sowiżdżał A. (eds).

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Tuchowska M., Bajda T. (2019). Modification of bentonite with mixed cationic-nonionic surfactants. *EUROCLAY 2019: international conference on clay science and technology, 1-5 July, 2019, Paris, France*. In: book of abstracts, pp. 609.

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Wołowiec M., Komorowska-Kaufman M., Pruss A., Rzepa G., Bajda T. (2019). Characterization of aluminum-based drinking water treatment residuals. *EUROCLAY 2019: international conference on clay science and technology, 1-5 July, 2019, Paris, France*. In: book of abstracts, pp. 645.

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Wołowiec M., Komorowska-Kaufman M., Pruss A., Rzepa G., Bajda T. (2019). Produkty odpadowe jako alternatywne sorbenty metali ciężkich – przegląd. *Sorbenty Mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie, 16–17 września 2019, Jerzmanowice, Polska*. In: book of abstracts, Bajda T. (red), pp. 81–82.

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Gołdyn R., Jedliński J., Grosseau-Poussard J. L., Dąbek J., Prażuch J, Michalski A., Rosiński M., Ziąbka M., Wójcik-Bania M., Nocuń M. (2019) The effect of hafnium additions on residual stresses in scales growing at 1150°C in air on Pulse-Plasma-Sintered B-NiAl. *Corrosion 2019: 12<sup>th</sup> international scientific corrosion conference : 27–29.05.2019, Warszawa, Poland*. s. 22-23

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Wójcik-Bania M., Stochmal E. (2019) Redukcja barwników organicznych przy użyciu nanocząstek srebra osadzonych na sieciach polisiloksanowych - Reduction of organic dyes using silver nanoparticles deposited on polysiloxane networks. W: *Sorbenty mineralne 2019 : surowce, energetyka, ochrona środowiska, nowoczesne technologie / red. nauk. Tomasz Bajda. — Kraków : Wydawnictwo Naukowe AKAPIT - ISBN: 978-83-65955-37, s. 83–84.*

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Bahranowski K., Klimek A., Gawel A., Tomczyk A., Serwicka E. M., (2019) Pillared montmorillonites as carbon dioxide nanosorbents W: *NanoOstrava 2019 : 6<sup>th</sup> Nanomaterials and nanotechnology meeting : May 13–16, 2019, Ostrava : [book of abstracts] / VŠB – Technical University of Ostrava. Nanotechnology Centre. — Ostrava : Vydavatelství VŠB – TU Ostrava, 2019. — ISBN: 978-80-248-4290-5. — S. 40.*

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Bahranowski K., Klimek A., Gawel A., Tomczyk A., Serwicka E. M., (2019) Modyfikowane bentonity z Kopernicy jako sorbenty ditlenku węgla — [Modified bentonites from Kopernica as carbon dioxide sorbent]. W: *Sorbenty mineralne 2019: surowce, energetyka, ochrona środowiska, nowoczesne technologie. [abstrakty z konferencji: 16–17 września 2019, Jerzmanowice] / red. nauk. Tomasz Bajda. — Kraków: Wydawnictwo Naukowe AKAPIT, 2019. — ISBN: 978-83-65955-37-1. — S. 13–14.*

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Machowski G., Pstrucha A., Pstrucha E., Górniak K., Tomczyk A. (2019) Evaluating seal potential of the chalk-type cap rocks from the Węglówka Oil Field, Outer Carpathians, Poland. W: *Paratethys petroleum systems: between Central Europe and the Caspian Region : 26–27 March 2019, Vienna, Austria : book of abstracts. AAPG European Regional Conference. — S. P-120.*

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Mikoda B., Potysz A., Tomczyk A. (2019) W: *ICCE 2019 17<sup>th</sup> International Conference on Chemistry and the Environment : 16–20 June 2019, Thessaloniki : conference proceedings. — S. 909–911.*

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## 2018

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Rybka, K., Matusik, J. (2018) Synthesis of Mg–Fe layered double hydroxides from minerals and their sorption affinity towards Cr(VI). III international conference on Applied mineralogy & advanced materials: MMS 2018 Minerals & Materials Sciences : bridging materials & minerals sciences: Bari, Italy, July, 24–26, 2018. ISSN 2464-9147, s. 77.

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Maziarz, P., Matusik, J. (2018) The structural stability of Mg–Al LDH impregnated with iron oxide particles used for As(V) removal. III international conference on Applied mineralogy & advanced materials: MMS 2018 Minerals & Materials Sciences : bridging materials & minerals sciences: Bari, Italy, July, 24–26, 2018. ISSN 2464-9147, s. 58.

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Koteja, A., Matusik, J. (2018) Photoresponsive behavior of  $\alpha$ -zirconium phosphate functionalized with azobenzenes. III international conference on Applied mineralogy & advanced materials: MMS 2018 Minerals & Materials Sciences : bridging materials & minerals sciences: Bari, Italy, July, 24–26, 2018. ISSN 2464-9147, s. 45.

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Maziarz, P., Matusik, J. (2018) The novel magnetic adsorbents doped with Fe<sub>3</sub>O<sub>4</sub> nanoparticles for the removal of As(V) and Cr(VI) by adsorption. Herl'any 2017: International conference of young geologists, Dobczyce n. Kraków. Wydawnictwo Mineralogiczne MINERALPRESS, cop. 2018. — ISBN: 978-83-933330-1-1, s. 44-45.

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Koteja, A., Góra, K., Łepko, A., Biskup, I., Matusik, J. (2018) Photoactivity of organically modified layered minerals. Herl'any 2017: International conference of young geologists, Dobczyce n. Kraków. Wydawnictwo Mineralogiczne MINERALPRESS, cop. 2018. — ISBN: 978-83-933330-1-1, s. 32-33.

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Luberda-Durnaś, K., Koteja, A., Szczerba, M., Matusik, J., Łasocha, W. (2018) New hybrid compound –  $\alpha$ -zirconium phosphate intercalate with *p*-aminoazobenzene: structure determination and interaction with UV radiation revealed by molecular modeling. 60 Konwersatorium krystalograficzne: warsztaty i walne zebranie PTKryst: Wrocław, 27–29 VI 2018 r, e-ISBN: 978-83-939559-4-7 - s. 222-223.

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Rybka, K., Matusik, J. (2018) The quality of Mg–Fe layered double hydroxide derived from magnesite and hematite. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 204.

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Maziarz, P., Matusik, J. (2018) Maghemite particles supported on halloysite as magnetically responsive composites for efficient As(V) removal. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 170.

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Koteja, A., Matusik, J. (2018) Monitoring the azobenzene isomerization in layered intercalation compounds using the infrared spectroscopy. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 136.

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Matusik, J., Rybka, K., Kuzdro, J., Toboła, B. (2018) Halloysite-based hybrid composites with synthetic LDH and their affinity to remove anions. 55th annual meeting The Clay Minerals Society, University of Illinois at Urbana-Champaign (Illinois, USA) June 11-14, 2018, s. 169.

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Matusik, J., Hyla, J. (2018) Removal of chromates and arsenates by halloysite-LDH composites. 9<sup>th</sup> Mid-European Clay Conference: Zagreb, September 17–21, 2018, ISBN 978-953-6923-39-7, s. 77.

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Rybka, K., Matusik, J. (2018) Mg–Fe LDH derived from magnesite and hematite and its affinity towards sulphates. 9<sup>th</sup> Mid-European Clay Conference: Zagreb, September 17–21, 2018, ISBN 978-953-6923-39-7, s. 94.

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Koteja, A., Luberda-Durnaś, K., Szczerba, M., Matusik, J. (2018) Highly ordered  $\alpha$ -zirconium phosphate intercalate with *p*-aminoazobenzene: structure refinement and interaction with UV radiation revealed by molecular modelling. 9<sup>th</sup> Mid-European Clay Conference: Zagreb, September 17–21, 2018, ISBN 978-953-6923-39-7, s. 63.

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Maziarz, P., Matusik, J. (2018) Application of halloysite impregnated with Fe<sup>0</sup> particles for acid mine drainage water treatment. 9<sup>th</sup> Mid-European Clay Conference: Zagreb, September 17–21, 2018, ISBN 978-953-6923-39-7, s. 78.

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Bajda T. 2018. Oxyanions sorption by organo-smectite. 55<sup>th</sup> Annual Meeting The Clay Minerals Society, Urbana-Champaign, June 11-14, 2018, Illinois, USA. In: book of abstracts, 40 p.

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Bajda T., Muir B., Nowak P. (2018) Hybrid sorption properties of zeolites: adsorption of As(V), P(V) and Cl - by clinoptilolite exchanged with Pb, Zn and Cd. 10<sup>th</sup> International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites – Zeolite 2018, 24–29 June 2018, Krakow, Poland. In: book of abstracts, Franus W., Madej J. (eds), pp. 121-122.

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Holmberg J., Bajda T., Hantler A. (2018) How to Quantify Asbestos combining Point Counting and combined X-ray Diffraction, Infrared Spectroscopy and Thermal Analysis. *Petrology in Narrow and Wide Perspective: 25 Years of Sessions of the Petrology Group of the Mineralogical Society of Poland, 25-28 October 2018, Brunów, Poland*. In: Mineralogia – Special Papers, 48, 54 p.

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Tuchowska M., Bajda T., Rzepa G., Dębiec K., Drewniak Ł. (2018) Batch and column sorption of As(V) onto bog iron ores. *Petrology in Narrow and Wide Perspective: 25 Years of Sessions of the Petrology Group of the Mineralogical Society of Poland, 25-28 October 2018, Brunów, Poland*. In: Mineralogia – Special Papers, 48, 88 p.

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Tuchowska M., Bajda T., Rzepa G., Dębiec K., Drewniak Ł. (2018) *GEOSYMPIOSIUM of Young Researchers SILESIA 2018, 12–14 September 2018, Istebna*. In: book of abstracts, Braclawska A. et al. (eds), e-ISBN: 978-83-951016-0-1. 57 p.

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Wołowiec M., Bajda T., Komorowska-Kaufman M., Pruss A., Rzepa G. (2018) Comparison of sorption properties of water treatment residuals. *GEOSYMPIOSIUM of Young Researchers SILESIA 2018, 12–14 September 2018, Istebna*. In: book of abstracts, Braclawska A. et al. (eds), e-ISBN: 978-83-951016-0-1. 59 p.

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Wołowiec M., Bajda T., Komorowska-Kaufman M., Pruss A., Rzepa G. (2018) Effectiveness of water treatment residuals in removing heavy metals and metalloids from aqueous solutions. *Petrology in Narrow and Wide Perspective: 25 Years of Sessions of the Petrology Group of the Mineralogical Society of Poland, 25-28 October 2018, Brunów, Poland*. In: Mineralogia – Special Papers, 48, 92 p.

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Wołowiec M., Bajda T., Komorowska-Kaufman M., Pruss A., Rzepa G. (2018) Sorpcja metali ciężkich i metaloidów na osadach z procesów oczyszczania wody — Removal of heavy metals and metalloids using water treatment residuals as adsorbents. In: *Zaopatrzenie w wodę, jakość i ochrona wód = Water supply and water quality*, Dymaczewski Z. et al. (eds). Poznań: Polskie Zrzeszenie Inżynierów i Techników Sanitarnych. Oddział Wielkopolski, 2018. (Inżynieria na Rzecz Ochrony Środowiska / red. Lemański J.F., Zabawa S.). ISBN: 978-83-64959-04-2. pp. 383–385.

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## 2017

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Koteja, A., Matusik, J. (2017) UV triggered basal spacing shifts in smectite intercalates. W: *ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7*, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 426.

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Maziarz, P., Matusik, J. (2017) Layered minerals as supports for magnetite nanoparticles and their use for aqueous As(V) removal. W: ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 527.

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Koteja, A., Góra, K., Matusik, J. (2017) Kanemite as a precursor for the synthesis of photoactive layered materials. W: ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 425.

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Łepko, A., Biskup, I., Koteja, A., Matusik, J. (2017) Insight into the structure of kaolinite and layered zirconium phosphate intercalated with photoactive molecules. W: ICC 2017: XVI International Clay Conference: Granada, Spain, July, 17–21, 2017, Vol. 7, ISSN 2464-9147, ISBN: 978-88-7522-089-1. s. 472.

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Matusik, J., Koteja, A., Łepko, A. (2017) The synthesis approach for the intercalation of photoactive molecules into kaolinite and layered zirconium phosphate. W: Living clays : The 54th Annual Clay Minerals Society conference: from nano-scale interactions to incorporation in everyday life : June 2–7, 2017, Edmonton, Alberta Canada, s. 13-14.

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Maziarz, P., Matusik, J. (2017) The LDH-based magnetic nanocomposites for the removal of As(V) and Mo(VI) anionic species. W: Living clays : The 54th Annual Clay Minerals Society conference: from nano-scale interactions to incorporation in everyday life : June 2–7, 2017, Edmonton, Alberta Canada, s. 86–87.

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Koteja, A., Góra, K., Matusik, J. (2017) Monitoring and understanding the UV induced structural changes for functionalized zmcetites and kanemite. W: Living clays : The 54th Annual Clay Minerals Society conference: from nano-scale interactions to incorporation in everyday life : June 2–7, 2017, Edmonton, Alberta Canada, s. 79–80.

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Bajda T. (2017). Porównanie zdolności sorpcyjnych sorbentów mineralnych względem anionowych form pierwiastków. FGF: Fyzykochemia Granic Faz - metody instrumentalne. Lublin 23–26 kwietnia 2017. In: Book of abstracts, Lublin, 2017. ISBN: 978-83-65133-18-2. 25 p.

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Dębiec, K., Rzepa, G., Bajda, T., Uhrynowski, W., Krzysztoforski, J., Skłodowska, A., Drewniak, Ł. (2017) Możliwości zastosowania darniowych rud żelazowych jako sorbentu w technologii usuwania arsenu z zanieczyszczonych wód. In: Sorbenty mineralne 2017: surowce, energetyka, ochrona środowiska, nowoczesne technologie, Bajda T. (ed.). Kraków: Wydawnictwa AGH, 2017. ISBN: 978-83-7464-944-5. pp. 15–18.

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Brylewska, K., Król, M., Kornaus, K., Bajda, T., Mozgawa, W. (2017) Sorption properties of mesoporous ZSM-5 and BEA zeolites. EYEC monograph: 6<sup>th</sup> European Young Engineers Conference: April 24–26, Warsaw. In: Nowak B., Werner Ł., Wierzba P (eds.) Warsaw: University of Technology. Faculty of Chemical and Process Engineering, 2017. ISBN: 978-83-936575-4-4. 237 p.

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Brylewska, K., Król, M., Bajda, T., Mozgawa, W. (2017) Spectroscopic studies of modified synthetic zeolites ZSM-5 and mordenite. XIV<sup>th</sup> International Conference on Molecular Spectroscopy: From Molecules to Functional Materials. Kraków–Białka Tatrzańska, 3–7 September 2017. In: Koleżyński A., Król M. (eds.), AGH University of Science and Technology, Kraków: Wydawnictwo Naukowe "Akapit", 2017. ISBN: 978-83-63663-94-0. 288 p.

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Brylewska, K., Bajda, T., Mozgawa, W. (2017) Modified structure of mordenite - studies of sorption properties. 6<sup>th</sup> international PhD seminar Kraków - Dresden – Warsaw, 29 November–1 December 2017, Kraków. In: book of abstracts, Pędzich Z., Wojciechowski K. (eds.) Kraków: AGH University of Science and Technology, 2017. ISBN: 978-83-65955-01-2. pp. 34–35.

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